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Geomorphometry: A Science of Quantitative Land-Surface Analysis was published in August 2008 by the ISG Board as part of the Developments in Soil Science series, volume 33. The book is available on Amazon and can be read online. The table of contents includes: **Part 1** * Geomorphometry: A Brief Guide + Mathematical and Digital Models of the Land Surface + DEM Production Methods and Sources + Preparation of DEMs for Geomorphometric Analysis + Geostatistical Simulation and Error Propagation in Geomorphometry + Basic Land-Surface Parameters + Land-Surface Parameters and Objects in Hydrology + Land-Surface Parameters Specific to Topo-Climatology + Landforms and Landform Elements in Geomorphometry **Part 2** * Overview of Software Packages Used in Geomorphometry + Geomorphometry in ESRI Packages + Geomorphometry in LandSerf + Geomorphometry in MicroDEM + Geomorphometry in TAS GIS + Geomorphometry in GRASS GIS + Geomorphometry in RiverTools **Part 3** * Geomorphometry: A Key to Landscape Mapping and Modelling + Soil Mapping Applications + Vegetation Mapping Applications + Applications in Geomorphology + Modelling Mass Movements and Landslide Susceptibility + Automated Predictive Mapping of Ecological Entities + Geomorphometry and Spatial Hydrologic Modelling + Applications in Meteorology + Applications in Precision Agriculture The book is edited by T. Hengl and H.I. Reuter, with a total of 772 pages. To cite the book, use: Hengl, T., Reuter, H.I. (eds) 2008. Geomorphometry: Concepts, Software, Applications. Developments in Soil Science, vol. 33, Elsevier, 772 pp. For specific chapters, refer to the authors and page numbers, e.g.: Pike, R.J., Evans, I.S., Hengl, T., 2008. Geomorphometry: a Brief Guide. In: Hengl, T. and Reuter, H.I. (Eds), Geomorphometry: Geomorphometry: Concepts, Software, Applications. Developments in Soil Science, vol. 33, Elsevier, 1-28 pp. The Baranja Hill data set used in the book can be downloaded from [insert link]. Geomorphometry is a statistical technique used to analyze and quantify the shape of the Earth's topography at various spatial scales. The focus of geomorphometry lies in calculating surface-form measures and features, which can be applied to improve the mapping and modeling of landforms for tasks such as soil evaluation, land use planning, and natural hazard assessment. This book provides a practical guide on preparing Digital Elevation Models (DEM) for analysis and extracting land-surface parameters and objects from DEMs using various software. It also offers detailed instructions on applying these parameters and objects in different fields, including soil science, agriculture, and environmental studies. The manual presents state-of-the-art methods in geomorphometry, which can be beneficial to researchers in these fields. Soil scientists will find it helpful for classifying and measuring the chemical, biological, and fertility properties of soils, while geologists will appreciate the instruction on measuring physical features such as elevation, porosity, and structure. The book also provides technical details on various software packages used for mapping and analysis. Additionally, it offers best practice techniques for soil data analysis to enhance land-use planning. Furthermore, it presents essential tactics for environmental management by providing a comprehensive analysis of the physical features of soil. A companion website is available, featuring geomorphometry software, DEM data sources, and applications previously unpublished in any other comprehensive source. Chapters on Geomorphometry Review Articles: 1. Preparation of DEMs (87-120) 2. Geostatistical Simulation and Error Propagation (121-140) 3. Basic Land-Surface Parameters (141-169) 4. Hydrology Land-Surface Parameters and Objects (171-194) 5. Topo-Climatology Land-Surface Parameters (195-226) 6. Landforms and Landform Elements in Geomorphometry (227-254) 7. Overview of Software Packages Used in Geomorphometry (257-267) 8. Geomorphometry in ESRI Packages (269-291) 9. Geomorphometry in SAGA (293-308) 10. Geomorphometry in ILWIS (309-331) 11. Geomorphometry in LandSerf (333-349) 12. Geomorphometry in MicroDEM (351-366) 13. Geomorphometry in TAS GIS (367-386) 14. Geomorphometry in GRASS GIS (387-410) 15. Geomorphometry in RiverTools (411-430) 16. Key to Landscape Mapping and Modelling (433-460) 17. Soil Mapping Applications (461-479) 18. Vegetation Mapping Applications (481-496) 19. Geomorphology Review (497-525) 20. Mass Movements and Landslide Susceptibility (527-550) 21. Automated Predictive Mapping of Ecological Entities (551-578) 22. Spatial Hydrologic Modelling (579-602) 23. Meteorology Review (603-622) 24. Precision Agriculture Review (623-636) 25. The Future of Geomorphometry (637-652) Geomorphometry: A Practical Guide for Quantitative Land-Surface Analysis The book offers a practical guide to preparing Digital Elevation Models (DEM) and extracting land-surface parameters and objects from DEMs using various software. It provides detailed instructions on applying these parameters and objects in different fields, including soil science, agronomy, environmental sciences, and earth sciences. Soil scientists will benefit from the book's methods for classifying and measuring soil properties, while geologists can apply the techniques to predict natural disasters such as earthquakes and flooding. The book also offers best practice techniques for soil data analysis and essential tactics for environmental management by providing a comprehensive analysis of soil physical features. The companion website includes access to geomorphometry software, DEM data sources, and applications, making it an invaluable resource for researchers in these fields.